

## OPTICAL FREQUENCY FILTER

## ABSTRACT OF THE DISCLOSURE

The present invention relates to an optical signal shaping device such as an optical filter having a profile such that transmission of light through the device varies as a function of frequency over a selected bandwidth. The optical signal shaping device of the present invention includes a frequency dependent disperser that disperses the input optical signal to form a dispersed signal having a plurality of frequencies, a frequency selective modulator that modulates at least one of the plurality of frequencies and a frequency dependent combiner that combines the frequencies to form a modulated output signal.